EP 02 10 2686

	DOCUMENTS CONSID	ERED TO BE RELEVANT			
Category	Citation of document with In of relevant pass	ndication, where appropriate, ages \	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL7)	
X	19 September 2000 (<pre>- column 4, line 6 * - line 28 *</pre>	1,2,5,6, 12,22-24	H04B10/155 H01S5/0687	
Y	* Tigure 1 *		7-10,15, 16		
Υ .	MOTONOBU KOUROGI ET OPTICAL FREQUENCY C ACCURATE OPTICAL FR MEASUREMENT"	OMB GENERATOR FOR	15,16		
	ISSN: 0018-9197	- page 2, column 1 *		TECHNICAL FIELDS SEARCHED (Int.CI.7)	
X	7 February 2001 (20 * column 1, line 1 * column 3, line 13	- column 2, line 50 *	1,3,4	H04B H01S	
A	* figure 1 *	. '	11,14	5 4 1	
Y	5 September 2000 (2	- column 3, line 17 * - line 58 *	7-10		
A	* column 4, 11ne 21 * column 5, line 31 * figures 4,6,7 *		20,21	70	
		-/		0	
	The present search report has I	been drawn up for all claims	7		
	Place of search	Date of completion of the search	·	Examiner	
	THE HAGUE	7 August 2003	Vac	juero, R	
X : part Y : part docu A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another interest of the same category inological background —written disclosure mediate document	L : document cited	ocument, but publiste in the application for other reasons	ished on, or	



EUROPEAN SEARCH REPORT

Application Number EP 02 10 2686

Category	Citation of document with i of relevant pass	ndication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IntCL7)
A	WO 02 060016 A (DEL HERVE (FR); CORVIS 1 August 2002 (2002 * abstract * * page 1, line 27-3 * page 2, line 24 - * page 7, line 16 - * page 10, line 15 * page 11, line 1 - * page 12, line 5 - * figure 3 * * page 12 *	2-08-01) 60 * · line 27 * · line 20 * - line 23 * · line 17 *	11,13, 17-21	*
				TECHNICAL FIELDS SEARCHED (Int.CI.7)
				•
	The present search report has	been drawn up for all claims		
	Place of search	Date of completion of the search	T	Examiner
	THE HAGUE	7 August 2003	Vaq	uero, R
X : part Y : part doct A : tech O : non	ATEGORY OF CITED DOCUMENTS licularly relevant if taken alone licularly relevant if combined with anotument of the same category mological background h-written disclosure rmediate document	E : earlier patent after the filing her D : document cite	d in the application d for other reasons	shed on, or

LACK OF UNITY OF INVENTION SHEET B

Application Number

EP 02 10 2686

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1,2,5,6,15-18,22-24

A method of controlling an optical signal, comprising the steps of:

- determining at least one actual beat frequency derived from a superposition of at least one optical reference signal with the optical signal having an actual frequency - using the at least one actual beat frequency in order to control the actual frequency.
- providing a comb of optical reference signals, preferably controlled by an electrical master clock signal
- 2. Claims: 3,4,11-14

A method of controlling an optical signal, comprising the steps of:

- determining at least one actual beat frequency derived from a superposition of at least one optical reference signal with the optical signal having an actual frequency using the at least one actual beat frequency in order to control the actual frequency.
- determining and comparing target beat frequencies with actual beat frequencies.
- 3. Claims: 7-10,20,21

A method of controlling an optical signal, comprising the steps of:

- determining at least one actual beat frequency derived from a superposition of at least one optical reference signal with the optical signal having an actual frequency - using the at least one actual beat frequency in order to control the actual frequency.
- preselecting the superimposing signal before detecting it
- 4. Claim: 19

A method of controlling an optical signal, comprising the steps of:

- determining at least one actual beat frequency derived from a superposition of at least one optical reference signal with the optical signal having an actual frequency - using the at least one actual beat frequency in order to control the actual frequency.
- providing error signals, feeding them into loop filter
 combining the loop filtered signals with positive or negative sign according to a defined schema

LACK OF UNITY OF INVENTION SHEET B

Application Number

EP 02 10 2686

e Search Division considuirements of unity of inv	ters that the pro- rention and rela	esent Eur ites to se	ropean paten veral inventio	it application ons or groups	does not of inventi	comply with t ions, namely	the :
	•		•				
·			•				•
	•	Ē			•		•
	•						
			•				
•							
		•				<i>o</i> .	
			-				
•							
						•	
•							
	•						
				,		-	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 02 10 2686

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for the se particulars which are merely given for the purpose of information.

07-08-2003

Patent docum cited in search r		Publication date		Patent family member(s)	Publication date
US 6122087	Α	19-09-2000	JP	10242913 A	11-09-1998
EP 1075063	Α	07-02-2001	IT CA	T0990692 A1 2313961 A1	05-02-2001 05-02-2001
			EP JP	1075063 A2 2001077462 A	07-02-2001 23-03-2001
			US	6574251 B1	03-06-2003
US 6115162	Α	05-09-2000	NONE		
WO 02060016	Α	01-08-2002	FR WO	2820246 A1 02060016 A2	02-08-2002 01-08-2002